LISTING OF THE CLAIMS

A complete listing of the claims is provided below. This listing of claims will replace all prior versions and listings of claims in the application.

- 1. (Currently Amended) A dock leveler, comprising:
- a base assembly;

a ramp assembly configured to rotate from a generally vertical stored position to one or more lowered operating positions, wherein the ramp assembly is pivotally coupled to said base assembly at a pivot point <u>located generally at one end of the ramp assembly</u>; and,

a counterbalance assembly comprising:

- a first anchor point;
- a second anchor point;
- at least one effective anchor point; and,

a biasing member having a central longitudinal axis defining a line of action, wherein the biasing member is coupled to the ramp assembly at said first anchor point and to the base assembly or a dock at the second anchor point, and wherein along the line of action, at least one effective anchor point is defined between the first and second anchor point said at least one effective anchor point has a location along the line of action, and which location relative to the pivot point changes as said ramp assembly rotates.

and further wherein as the at least one effective anchor point moves, the line of action of the biasing member moves to change counterbalance characteristics of the ramp assembly.

- 2. (Original) A dock leveler according to claim 1, wherein the biasing member is a spring.
- 3. (Original) A dock leveler according to claim 1, wherein the biasing member is coupled to the second anchor point via a flexible member.

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- 4. (Original) A dock leveler according to claim 3, wherein the biasing member is attached to the flexible member at an attachment point and the location of the at least one effective anchor point is at the attachment point of the biasing member and flexible member.
- 5. (Original) A dock leveler according to claim 3, wherein the flexible member is chosen from a chain, a cable, and a band.
 - 6. (Original) A dock leveler according to claim 5, wherein the flexible member is a chain.
- 7. (Original) A dock leveler according to claim 3, wherein the base assembly comprises a cam plate having at least one cam surface shaped to deflect the line of action as the ramp assembly rotates by selectively engaging the flexible member.
- 8. (Original) A dock leveler according to claim 7, wherein the biasing member is coupled at the second anchor point to the base assembly.
- 9. (Original) A dock leveler according to claim 7, wherein the biasing member is a spring and the cam plate includes an anchor hole at which the spring is fixedly coupled to the base assembly via the flexible member, an upper cam surface having a shape, and a lower cam surface having a shape, wherein the upper cam surface, lower cam surface, anchor point, and flexible member cooperate to deflect the line of action as the ramp assembly rotates.
- 10. (Currently Amended) A dock leveler according to claim 9, wherein the ramp assembly has a weight moment and the shape of the lower cam surface is configured to provide a spring moment that is less than the weight moment of the ramp assembly when the ramp assembly is in one

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or more lowered operating positions operative position.

11. (Original) A dock leveler according to claim 9, wherein the ramp assembly has a weight

moment and the shape of the upper cam surface is configured to provide a spring moment that is

greater than the weight moment of the ramp assembly at least as the ramp assembly rotates above the

operative position.

12. (Original) A dock leveler according to claim 11, wherein the shape of the upper cam

surface is configured to provide a spring moment that is approximately equal to the weight moment

of the ramp assembly when the ramp assembly is in the stored position.

13. (Currently Amended) A dock leveler according to claim 9, wherein the one or more

lowered operating positions are in a generally horizontal working range, the dock leveler has a net

moment which can vary as the ramp assembly rotates, and the net moment is in the downward

direction when the ramp assembly is in the vertical stored position, the net moment is relatively

constant in the generally horizontal working range, and the net moment is in the upward direction

through a region between the generally horizontal working range and the vertical stored position.

14. (Original) A dock leveler according to claim 13, wherein the net moment is

approximately zero at a position between the vertical stored position and the one or more operative

positions.

15. (Original) A dock leveler according to claim 13, wherein the generally horizontal

working range includes positions where an end of the ramp assembly is about eight inches above

horizontal to a position where the end of the ramp assembly is about eight inches below horizontal.

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16. (Currently Amended) A counterbalance assembly for a mechanically-operated, vertically-storing dock leveler having a rotating ramp assembly, comprising:

ramp means configured to pivot generally about one end of the ramp means;

tension means for counterbalancing the ramp <u>means</u> assembly of a dock leveler, wherein the tension means has a first end and a second end;

means for fixedly coupling said first end of said tension means to the ramp <u>means assembly</u> at a first anchor point;

means for flexibly coupling said second end of said tension means to a base assembly of the dock leveler at a second anchor point, wherein the first anchor point and second anchor point define a direct line of action; and,

means for camming means configured to selectively engage the means for flexibly coupling along a side of the flexibly coupling means when the ramp means is located such that the tension means is deflected away from the direct line of action when the tension means and the tension means is incorporated in the dock leveler operatively connected to the means for flexibly coupling and the ramp assembly rotates,

wherein counterbalance characteristics of the ramp means change as the position of the ramp means changes and the tension means is deflected away from the direct line of action.

- 17. (Original) A counterbalance assembly according to claim 16, wherein the tension means is a spring.
- 18. (Currently Amended) A counterbalance assembly according to claim 17, wherein the means for fixedly coupling said second <u>first</u> end comprises an adjusting bolt and a spring anchor bracket, and wherein the means for flexibly coupling said <u>first second</u> end comprises a flexible tensile member chosen from a chain, a band, and a cable.

19. (Currently Amended) A method for counterbalancing a mechanically-operating, vertically-storing dock leveler having a rotating ramp assembly attached to a base assembly at a pivot point located near one end of the ramp assembly, comprising:

coupling a spring to the dock leveler with a flexible attachment device; and,

providing a camming surface configured to cooperate with the flexible attachment device to flex the flexible attachment device and deflect the spring away from a direct line of action in response to the ramp assembly rotation; and

changing counterbalance characteristics of the dock lever as the spring is deflected away from the direct line of action.

- 20. (Original) A method according to claim 19, wherein the camming surface is shaped to cause the spring to deflect toward the pivot point as the ramp assembly rotates downwardly.
 - 21. (New) A dock leveler, comprising:
 - a base assembly;

a ramp assembly configured to rotate from a generally vertical stored position to one or more lowered operating positions, wherein the ramp assembly is pivotally coupled to said base assembly at a pivot point located near one end of the ramp assembly; and,

a counterbalance assembly comprising:

- a first anchor point;
- a second anchor point; and
- a biasing member having a central longitudinal axis defining a line of action, wherein the biasing member is coupled to the ramp assembly at said first anchor point and to the base assembly or a dock at the second anchor point, and wherein an effective anchor point has a location along the line of action and moves as the ramp assembly moves, such that the line of action is colinear to a line defined by a line between one of the first and second anchor points and the effective

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anchor point and moves as said ramp assembly rotates to change counterbalance characteristics of the ramp assembly.

22. (New) The dock leveler of claim 21, further comprising:

a flexible member connecting the biasing member to at least one of the first and second anchor points;

at least one camming surface configured to urge against a flexible member and define a location of the effective anchor point at a point of contact between the at least one camming surface and the flexible member.

23. (New) The dock leveler of claim 21, wherein the line of action is defined by one of the first and second anchor points and the effective anchor point.